



TEMPEST TIC 4.1X NFPA

High Resolution Thermal imaging camera



Efficient and small = 1 button + 4" display

Particularly suitable for the first attack. LEADER TIC 4.1X offers unbeatable value and best quality, ideal for firefighting, first attack, search for missing persons and fire...



Outstanding features:

- **Compact** 7.09 x 6.02 x 4.13 inches
- Lightweight **2.25 lbs** with 2 batteries and side straps.
- **Large 4" display** for detailed visibility
- **Widest detection range:** -40°F to +2100°C
- **1 colorization mode**
- **Video recording** (option)
- **Batteries:** 6 year warranty, 5000 charging cycles
- **Safe batteries (LiFePO4):** for high temp operations
- **Up to 8h running time** (2 batteries) with integrated Eco-Boost-System
- **Germanium window to protect the optics**
- **Removable Pistol grip** option
- **Boot time: less than 5 sec**
- **1 Large button:** easy to operate even with gloves



NFPA 1801:2018



Color schemes:

The TIC 4.1X offers one color scheme: **Fire** (standard).



FIRE (STD):
 Dark Red >1560°F
 Red > 1250°F
 Orange > 930°F
 Dark Yellow >660°F
 Yellow > 400°F
 White = Hot
 Black = Cold

3 Sensitivity modes with automatic switch according observed scene:

- High sensitivity temperature range: -40 +300°F
- Medium sensitivity temperature range: -40 + 950°F
- Low sensitivity temperature range: -40 +2100°F



As part of our policy of constantly researching to improve our equipment, we reserve the right to change the characteristics of our apparatus at any time without prior notice. ZF.07.345.US.2



Characteristics:

Leader TIC 4.1X with Eco-Boost-System	
Dimensions (approx)	L7.09 x W6.02 x H4.13 inches (H = +4.33" with optional pistol grip)
Weight	2.25 lbs with 2 batt / 2.06 lbs with 1 batt (+0.37 lbs with optional pistol grip)
Display	4" LCD / 320 x 240 (76.800) px / Backlighted / Brightness: 800 cd/m ²
Frequency	60Hz Fps
T°C Range	-40° to +2100°F
Colorization	Std: Fire
Housing	
Material	PUR / Elastomer housing with silicone boot around display
Drop Test	6.5ft on concrete
IP	IP67 / 3.2ft Meter 30 Minutes
Heat resistance	300°F for 15min / 500°F for 5min
Sensor	
Micro bolometer type	Uncooled 17μ Amorphous Silicon aSi Resolution 384 x 288 (110 592 px)
Spectral range	7 – 14 μm
Thermal sensitivity	NETD: <50mK (<0.05°C)
Optics	
Material	Germanium Carbon Coated Protected by a germanium window
Focus	1.15ft to infinity / F/1.3 speed
Visual field / FOV	H: 51° / V: 40° / Diagonal: 65°

General	
Rechargeable batteries	LiFePO ₄ (Lithium Iron Phosphate = safety VS fire), 2.5Ah at 6.6V, 0.19lbs
Running time (20°C) with Eco-Boost-System since October 2018	Without video/photo functions: >8h (2 batt) / >4h (1 batt) With video/photo functions: >6h (2 batt) with non-active video >5h (2 batt) with recording video
Boot time	< 5 seconds
Charging voltage	12-24 VDC or 100-240 VAC
Charging time (for 2 batt / half for 1 batt)	Charging bay: ~1h30 Mains charger: 100% in ~2h, 90% in ~1h30, 80% in ~1h20
Charging cycles	> 5000
Memory (optional)	8GB internal SD card (8h video)
Warranty	5 years on camera / 6 years on batteries / 10 years on thermal sensor / 1 year on accessories (chargers, charging bay, etc...)
Certifications	NFPA1801:2018 and ISA12.12.01 / CSA C22.2 N°213 and CE
Options	
Removable pistol grip	Automatic video recording (8GB capacity) at start ON
Neck strap in flame retardant material	Vehicle charging bay or mains charger
1 or 2 Retractable lanyards	Carrying case IP67
Protection hood	Wireless video transmission to computer, tablet or smartphone



Energy concept

LiFePO₄ batteries (lithium-iron-phosphate).

Benefits:

- Very long lifespan guaranteed 5000 charging cycles (~10 years)
- Operating time (up to 8h with 2 batteries at the same time in the camera)

Picture capture & Video recording

Pictures (up to 1000) and Video (up to 8h) can be:

- Viewed on the camera screen during operation
- Live Pictures can be sent to a computer, tablet or smartphone thanks to optional wireless stick.
- Downloaded into a computer via a USB cable

Wlan module



Vehicle Charging Bay

Very space-saving mountable!
Power supply 12/24 VDC or 100-240 VAC. Can charge up to 4 batteries at the same time (2 in the camera and 2 spares)





Camera standard features:

Designation	Color modes		Features					
	Color modes	Max color modes	Battery	Freeze mode	Side trap	Video recording	Picture capture	USB cable
LEADER TIC 4.1X (1CS)	Fire (std.)	2			No, but available attachment points for zippers and/or neck strap			
LEADER TIC 4.1X (V)	Fire (std.)	2				Automatic recording at start ON		√

P = Picture
V = Video + Picture

Camera optional accessories:

	Wireless Transmission kit	Only compatible with cameras equipped with Video recording		Vehicle charging bay with additional slots	Charge batteries in the camera + 2 extra spare batteries
	Pack of 2 spare batteries			Power supply for charging bay	Exist in 12/24V and 100V-240V with US or EU plug
	Cable charger	Available in 12/24V or 100V- 240V		Retractable lanyard	1.1 lbs or 2.2 lbs tension force
	Watertight Carrying case	IP67		Neck strap	Fire-proof (Kevlar)
	Vehicle charging bay	Charge batteries inside the camera		Protection hood	Increases time exposure x2 to high temperatures
				Removable pistol grip	Pistol grip = 0.37 lbs Incl. mounting tool

